



Norwegian Ministry
of Climate and Environment

Norway's electric vehicle policies

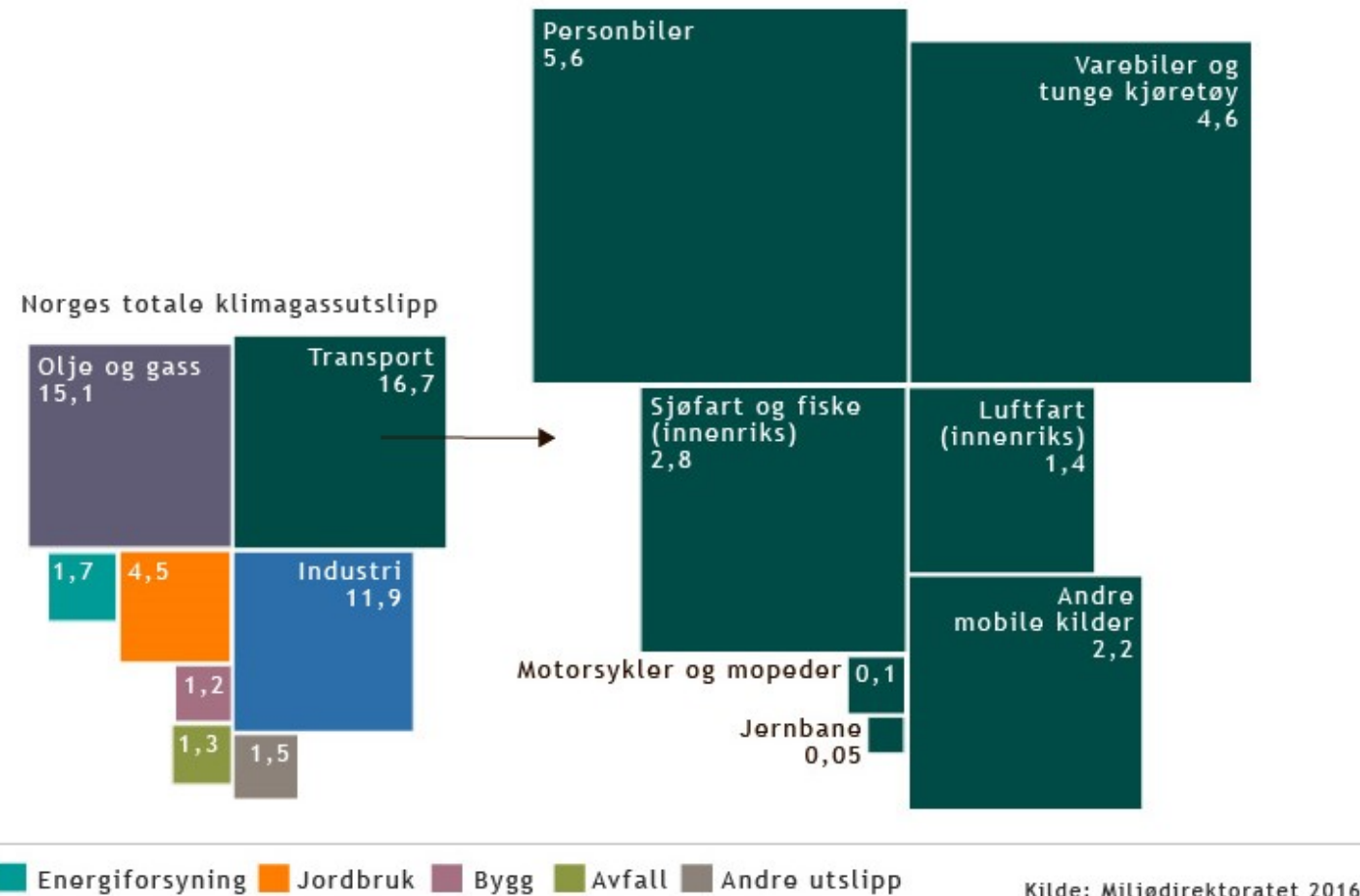
Tom O. Johnsen, Department for Climate Change, Section for Transport and Local Environment

Oslo, 14 August 2017



GHG-emissions from transport in 2015

Mill. tonne CO₂. eqv.



Reducing emissions from transport

- Reduce transport, e.g. by urban planning
- Transfer to transport with lower emissions, e.g. cars ⇒ buses
- Reduce emissions from the individual vehicle, e.g. **electric vehicles** and biofuels.



Foto: Ilja Hendel/NTBscanpix

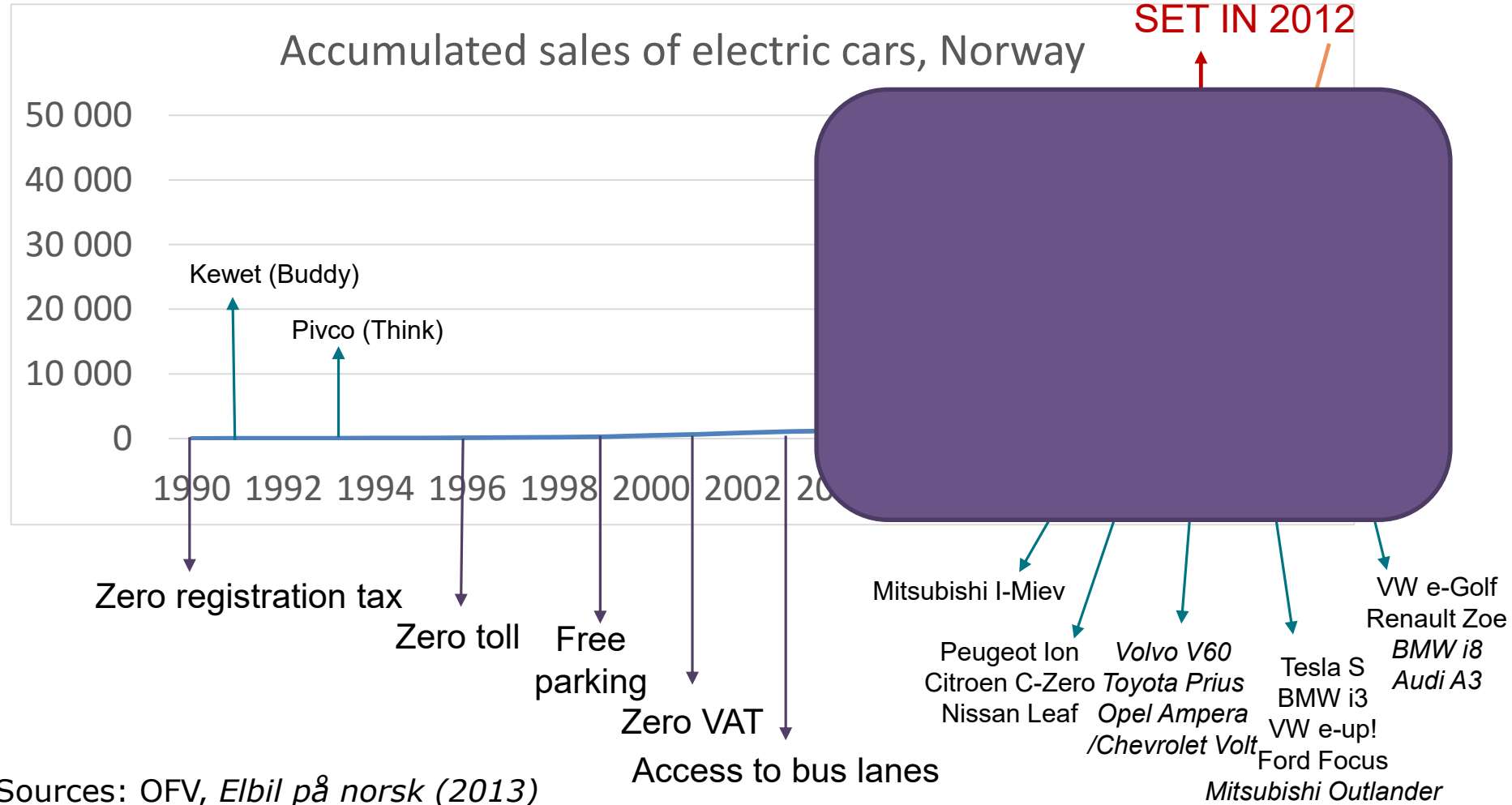
Main EV policies

- Exemption from value added tax. Normal rate: 25 %
- Exemption from registration tax. On average: 10000 euros
- No subsidies per se
- Public company Enova: Supporting charging infrastructure
- Free toll roads, free public parking and free charging at public charging stations, access to bus lanes, free/reduced fees on ferries
- Relatively high taxes on fossil fuels

Development of policy and sales

TARGET OF
50.000,
SET IN 2012

2017:
MORE THAN
100.000



POLICY DEVELOPMENT

MARKET INTRODUCTION

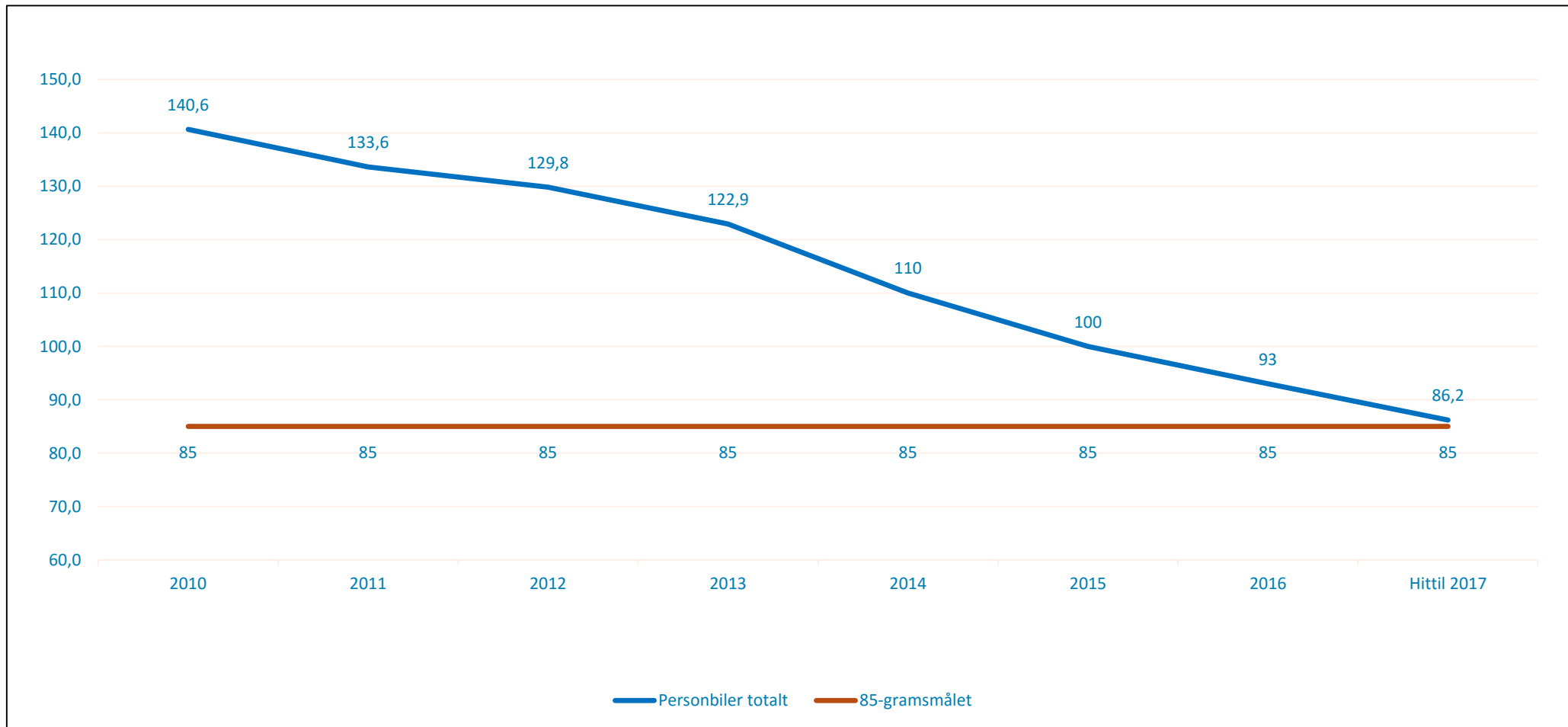


Examples: Prices and purchase taxes

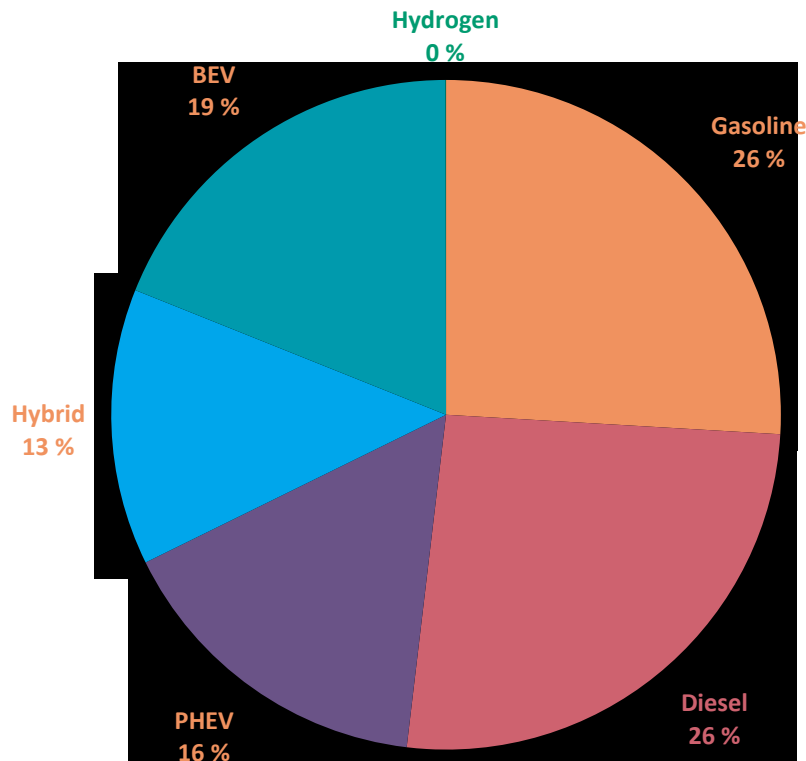
Car brand	Car model	Fuel type	CO ₂ emission, g/km	NO _x emission, mg/km	Engine power, kW	Guiding price, NOK (February 2017)	Hereof taxes, NOK
Mitsu.	i-MiEV	Electric	0	0	49	160 000	2 400
VW	e-up!	Electric	0	0	60	210 000	2 400
VW	up!	Petrol	82	0	50	200 000	70 000
VW	up!	Petrol	96	23	55	180 000	70 000
Nissan	Leaf	Electric	0	0	80	245 000	2 400
VW	e-Golf	Electric	0	0	100	300 000	2 400
VW	Golf	Petrol	109	60	81	300 000	120 000
VW	Golf	Diesel	111	80	110	350 000	140 000
Tesla	Model S	Electric	0	0	310	780 000	2 400
Audi	A6	Diesel	159	69	235	780 000	400 000
Audi	S6	Petrol	214	24	331	1 070 000	600 000



Grams CO2 per kilometer from new passenger cars



Current sales of new passenger cars (Jan–June)



Most popular vehicles:

1. BMW i3 2769
2. VW e-Golf 2446
3. Toyota Rav4 2389
4. Nissan Leaf 2202
5. VW Passat 1896
6. Toyota Yaris 1869
7. Mitsubishi Outlander 1803
8. Toyota Auris 1771
9. Toyota C-HR 1728
10. Volvo V90 1649
11. Tesla Model X 1507
12. Renault Zoe 1451

ZEVs: 14 805 (19 %)

All vehicles: 78 043

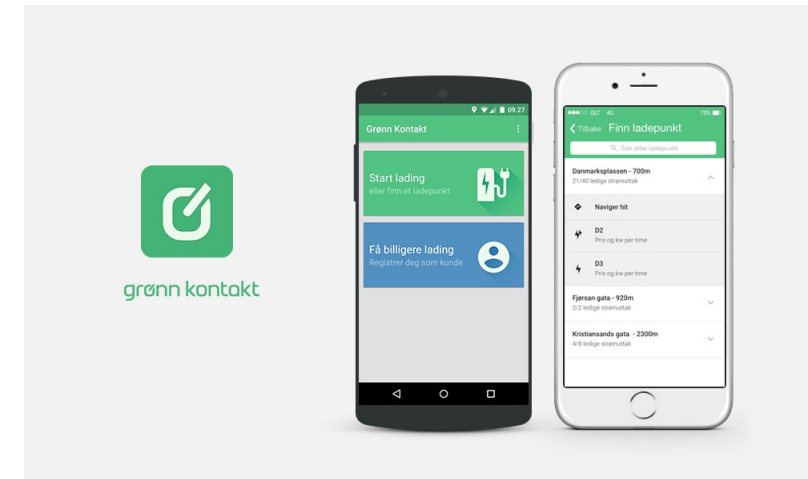


Charging infrastructure



Ladestasjoner i Norge 01.06.2017

Ladestasjoner totalt:	2075
Ladepunkt totalt:	9098
Ladepunkt offentlige:	8101
Schuko:	4783
AC:	1711
Ladestasjoner semi/hurtig:	505
CHAdEMO hurtigladere:	608
CHAdEMO semihurtiglادere:	1
Combo hurtiglادere:	563
Combo semihurtiglادere:	1
AC Type 2 hurtiglادere:	53
AC Type 2 semihurtiglادere:	835
AC Type 2 11kW:	137
Tesla superladepunkt:	246
Ladepunkt sanntidsstatus:	611
Planlagte hurtiglادestasjonjer:	18



Et samarbeid mellom

Vi gir støtte til energi- og klimatiltak

Tips oss om ladestasjoner

NOBIL

LADESTASJON



Norway's EV targets

- New cars in 2020: 85 grams CO₂ per km
- White paper Transport Plan 2018–2029:
 - 2025: All new private cars and light vans should be zero-emission vehicles.
 - 2025: All new city buses should be zero-emission vehicles or use biogas.
 - 2030: All new heavy vans, 75 % of new long-distance buses, and 50 % of new lorries should be zero-emission vehicles.
 - 2030: More or less emission free goods distribution in major city areas



Future EV policy

Changes in the electric car support scheme, announced in the national budget for 2017:

The VAT exemption prolonged until 2020

Annual tax exemption

Exemption from re-registration tax (second hand value)

Nationally binding rule that zero emission vehicles will be charged at maximum 50 per cent of the rate for conventional cars for the use of ferries, road toll and parking

The tax exemptions are contingent on approval from the EFTA surveillance authority (ESA)